

Dear FCC,  
First, I appreciate the Federal Communications Commission (FCC) extending the time for comments on the Engineering and Technology Notice of Inquiry Docket No. 03-104 regarding Carrier Current Systems, including Broadband over Power Line (BPL) Systems to August 20, 2003.

As a Japanese licensed amateur radio operator, JG1RVN, I am very concerned with the spectrum pollution (interference) associated with the new broadband over power line technology the FCC is considering for approval for use by the power line industry. Since the US situation affects radio communication services all over the world, I would like to describe my comments to the NOI..

In August 2002, Japanese ministry announced that "at this stage, increasing the frequency bandwidth that is used in power line communications would be difficult, and proposed that qualification is put in place to implement feasibility tests in areas such as promoting modem research and development;"  
[http://www.soumu.go.jp/joho\\_tsusin/eng/Releases/Telecommunications/news020809\\_3.html](http://www.soumu.go.jp/joho_tsusin/eng/Releases/Telecommunications/news020809_3.html)

Because medium/low voltage mains of current technology radiate large amount of emission when it is driven by RF signals, MPHPT study group reached the above conclusion.

Some measurement results are presented at The 7th International Symposium on Power Line Communications and Its Applications on March 2003 (Kyoto, Japan) and available from  
<http://www.qsl.net/jh5esm/>  
Some disturbance examples of existing HF broadcasting and standard A3E signals are also located at this site.

By observing these results, current BPL technology -- mainly not the modem, but mains -- would become the source of HARMFUL INTERFERENCE to existing radio communication services including broadcasting, amateur, mobile, radio astronomy and so on.

I sincerely hope that FCC takes my comments into account for consideration.

Best Regards,  
Toru Kato

